BRUHATH BENGALURU MAHANAGARA PALIKE

BYTARAYANAPURA DIVISION, BANGALORE

1st & Final Bill

Name of Work: - Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara and Surrounding area in Ward No.05

Estimated Cost:- 85.00 Lakhs

PRE-MEASUREMENT SHEET

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Name of Work: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara and Surrounding area in Ward No.05

Pre Measurements

Pre measurement recorded on: 26/05/2020 to 8/6/20

Item No	Description of Item	No	L	B	D	Qty	Unit
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification						
	For RCC Drain						
	Kuvempu Nagara Cross road from 1st Main Road						
	Cross-2 RHS						
		1	12.20	1.10	1.00	13.42	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	18.50	1.10	1.00	20.35	
	Cross-2 (LHS)						
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	18.40	1.10	1.00	20.24	
	Cross-1 (LHS)						
		1	24.60	1.10	1.00	27.06	
	Cross-4 (RHS)						
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	22.00	1.10	1.00	24.20	
	Cross-4 (LHS)						
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	19.00	1.10	1.00	20.90	
	Cross-3 (RHS)						
		1	13.50	1.10	1.00	14.85	
		1	24.90	1.10	1.00	27.39	
	Cross-3 (LHS)						
		1	29.30	1.10	1.00	32.23	
		1	30.00	1.10	1.00	33.00	
		1	11.50	1.10	1.00	12.65	
		1	5.50	1.10	1.00	6.05	
		1	30.00	1.10	1.00	33.00	
		1	11.20	1.10	1.00	12.32	
	Near Doddamma Devi Temple (LHS)						
		1	29.30	1.10	1.00	32.23	
		1	20.00	1.60	1.00	32.00	
		1	14.40	1.60	1.00	23.04	
		1	20.05	1.10	1.00	22.06	
	Kuvempu Nagara Cross road from 1st Main Road (Culverts Work)						
	For Culverts - 1, Cross-2	1	6.45	1.60	1.10	11.35	
	For Culverts - 2, Cross-2	1	6.70	1.80	1.10	13.27	
	For Culverts - 3, Cross-3	1	2.50	1.50	1.10	4.13	
	For Culverts - 4, Near Doddamma devi temple	1	5.00	1.60	1.10	8.80	
	For Culverts - 5, Cross-3	1	5.20	1.60	1.10	9.15	

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Item No	Description of Item	No	L	B	D	Qty	Unit
	For Culverts - 6, Near Doddamma devi temple	1	3.20	1.50	1.10	5.28	
	Kuvempu Nagara Cross road from 1st Main Road (CC Road)						
	Cross - 3	1	28.00	5.00	0.30	42.00	
		1	30.00	5.20	0.30	46.80	
		1	16.20	4.90	0.30	23.81	
		1	5.80	5.80	0.30	10.09	
		1	13.50	2.50	0.30	10.13	
		1	20.00	4.60	0.30	27.60	
	3rd B Cross	1	22.00	4.40	0.30	29.04	
		1	30.00	4.00	0.30	36.00	
		1	28.00	3.40	0.30	28.56	
		1	11.10	9.85	0.30	32.80	
					Present Qty=	**1042.79**	
					Limited to Qty=	**1020.68**	**Cum**

8/6/20
Assistant Engineer
Ward No.05

8/6/2020
Assistant Executive Engineer
Bytarayanapura Sub-Division

2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. 01/06/20 to 10/06/20						
	For RCC Drain						
	Kuvempu Nagara Cross road from 1st Main Road (RCC Drain)						
	Cross-2 (RHS)						
		1	12.20	1.10	0.15	2.01	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	18.50	1.10	0.15	3.05	
	Cross-2 (LHS)						
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	18.40	1.10	0.15	3.04	
	Cross-1 (LHS)						
		1	24.60	1.10	0.15	4.06	
	Cross-4 (RHS)						
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	22.00	1.10	0.15	3.63	
	Cross-4 (LHS)						
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	19.00	1.10	0.15	3.14	

10/6/2020

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Item No	Description of Item	No	L	B	D	Qty	Unit
	Cross-3 (RHS)						
		1	13.50	1.10	0.15	2.23	
		1	24.90	1.10	0.15	4.11	
	Cross-3 (LHS)						
		1	29.30	1.10	0.15	4.83	
		1	30.00	1.10	0.15	4.95	
		1	11.50	1.10	0.15	1.90	
		1	5.50	1.10	0.15	0.91	
		1	30.00	1.10	0.15	4.95	
		1	11.20	1.10	0.15	1.85	
	Near Doddamma Devi Temple (LHS)						
		1	29.30	1.10	0.15	4.83	
		1	20.00	1.40	0.15	4.20	
		1	14.40	1.40	0.15	3.02	
		1	20.05	1.10	0.15	3.31	
	Kuvempu Nagara Cross road from 1st Main Road (Culverts Work)						
	For Culverts - 1, Cross-2	1	6.45	1.60	0.15	1.55	
	For Culverts - 2, Cross-2	1	6.70	1.60	0.15	1.61	
	For Culverts - 3, Cross-3	1	2.50	1.50	0.15	0.56	
	For Culverts - 4, Near Doddamma devi temple	1	5.00	1.60	0.15	1.20	
	For Culverts - 5, Cross-3	1	5.20	1.60	0.15	1.25	
	For Culverts - 6, Near Doddamma devi temple	1	3.20	1.50	0.15	0.72	
	Kuvempu Nagara Cross road from 1st Main Road (CC Road)						
	Cross - 3	1	28.00	5.00	0.15	21.00	
		1	30.00	5.20	0.15	23.40	
		1	16.20	4.90	0.15	11.91	
		1	5.80	5.80	0.15	5.05	
		1	13.50	2.50	0.15	5.06	
		1	20.00	4.60	0.15	13.80	
	3rd B Cross	1	22.00	4.40	0.15	14.52	
		1	30.00	4.00	0.15	18.00	
		1	28.00	3.40	0.15	14.28	
		1	11.10	9.85	0.15	16.40	
					Present Qty=	**254.87**	
					Limited to Qty=	**244.22**	**Cum**

10/6/20

Assistant Engineer
Ward No.05

10/6/2020

Assistant Executive Engineer
Bytarayanapura Sub-Division

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8/6/20 to 20/6/20

Item No	Description of Item	No	L	B	D	Qty	Unit
4	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications						
	For RCC Drain						
	Kuvempu Nagara Cross road from 1st Main Road (RCC Drain)						
	Cross-2 RHS						
	Total length of drain = 90.70 Mtr						
1	Main Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	1	727	2.40	0.62	1081.78	
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	1	20	90.70	0.62	1124.68	
2	**Cross-2 LHS**						
	Total length of drain = 108.40 Mtr						
	Main Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	1	868	2.40	0.62	1291.58	
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	1	20	108.40	0.62	1344.16	
3	**Cross-1 (LHS)**						
	Total length of drain = 24.60 Mtr						
	Main Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	1	198	2.40	0.62	294.62	
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	1	20	24.60	0.62	305.04	
4	**Cross-4 (RHS)**						
	Total length of drain = 82.00Mtr						
	Main Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	1	657	2.40	0.62	977.62	
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	1	20	82.00	0.62	1016.80	
5	**Cross-4 (LHS)**						
	Total length of drain = 79.00Mtr						
	Main Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	1	633	2.40	0.62	941.90	
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	1	20	79.00	0.62	979.60	
6	**Cross-3 (RHS)**						
	Total length of drain = 38.40Mtr						
	Main Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	1	312	2.40	0.62	464.26	

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Item No	Description of Item	No	L	B	D	Qty	Unit
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr						
		1	20	38.40	0.62	476.16	
7	**Cross-3 (LHS)**						
	Total length of drain = 117.50 Mtr						
	Main Bars 10mm dia@.125mm c/c						
	0.62kg/mtr						
		1	945	2.40	0.62	1406.16	
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr						
		1	20	117.50	0.62	1457.00	
8	**Near Doddamma Devi Temple (LHS)**						
	Total length of drain = 83.75 Mtr						
	Main Bars 10mm dia@.125mm c/c						
	0.62kg/mtr						
		1	700	2.40	0.62	1041.60	
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr						
		1	20	83.75	0.62	1038.50	
	Double Mat						
	For RCC Culverts						
1	**For Culverts - 1, Cross-2**						
	Total length of drain = 6.45 Mtr						
	Main Bars 12mm dia@.125mm c/c						
	0.89kg/mtr	2	58	2.70	0.89	278.75	
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	2	24	6.45	0.62	191.95	
2	**For Culverts - 2, Cross-2**						
	Total length of drain = 6.70 Mtr						
	Main Bars 12mm dia@.125mm c/c						
	0.89kg/mtr	2	60	2.70	0.89	288.36	
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	2	24	6.70	0.62	199.39	
3	**For Culverts - 3, Cross-3**						
	Total length of drain = 2.50 Mtr						
	Main Bars 12mm dia@.125mm c/c						
	0.89kg/mtr	2	21	2.20	0.89	82.24	
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	2	20	2.50	0.62	62.00	
4	**For Culverts - 4, Near Doddamma devi temple**						
	Total length of drain = 5.00 Mtr						
	Main Bars 12mm dia@.125mm c/c						
	0.89kg/mtr	2	21	2.50	0.89	93.45	

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Item No	Description of Item	No	L	B	D	Qty	Unit
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	2	22	5.00	0.62	136.40	
5	**For Culverts - 5, Cross-3**						
	Total length of drain = 5.20Mtr						
	Main Bars 12mm dia@.125mm c/c						
	0.89kg/mtr	2	28	2.70	0.89	134.57	
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	2	23	5.20	0.62	148.30	
6	**For Culverts - 6, Near Doddamma devi temple**						
	Total length of drain = 3.20Mtr						
	Main Bars 12mm dia@.125mm c/c						
	0.89kg/mtr	2	30	2.50	0.89	133.50	
	Distrubution Bars 10mm dia@.125mm c/c						
	0.62kg/mtr	2	21	3.20	0.62	83.33	
						17073.70	
					Present Qty=	**17.07**	**Tonne**

20/6/20

Assistant Engineer
Ward No.05

20/6/20

Assistant Executive Engineer
Bytarayanapura Sub-Division

7	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications.						
	Kuvempu Nagara Cross road from 1st Main Road (CC Road)						
	Cross - 3	1	28.00	5.00		140.00	
		1	30.00	5.20		156.00	
		1	16.20	4.90		79.38	
		1	5.80	5.80		33.64	
		1	13.50	2.50		33.75	
		1	20.00	4.60		92.00	
		1	22.00	4.40		96.80	
	3rd B Cross	1	30.00	4.00		120.00	

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Item No	Description of Item	No	L	B	D	Qty	Unit
		1	28.00	3.40		95.20	
		1	11.10	9.85		109.34	
					Present Qty=	956.11	
					Limited to Qty=	874.80	Sqm

6/7/20
Assistant Engineer
Ward No.05

6/7/2020
Assistant Executive Engineer
Bytarayanapura Sub-Division

8	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.						
	Kuvempu Nagara Cross road from 1st Main Road (CC Road)						
	Cross - 3	1	28.00	5.00		140.00	
		1	30.00	5.20		156.00	
		1	16.20	4.90		79.38	
		1	5.80	5.80		33.64	
		1	13.50	2.50		33.75	
		1	20.00	4.60		92.00	
	3rd B Cross	1	22.00	4.40		96.80	
		1	30.00	4.00		120.00	
		1	28.00	3.40		95.20	
		1	11.10	9.85		109.34	
					Present Qty=	956.11	
					Limited to Qty=	874.80	Sqm

6/7/20
Assistant Engineer
Ward No.05

6/7/2020
Assistant Executive Engineer
Bytarayanapura Sub-Division

9	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications.						
	Kuvempu Nagara Cross road from 1st Main Road (CC Road)						
	Cross - 3	1	28.00	5.00	0.15	21.00	
		1	30.00	5.20	0.15	23.40	
		1	16.20	4.90	0.15	11.91	
		1	5.80	5.80	0.15	5.05	
		1	13.50	2.50	0.15	5.06	
		1	20.00	4.60	0.15	13.80	
	3rd B Cross	1	22.00	4.40	0.15	14.52	
		1	30.00	4.00	0.15	18.00	
		1	28.00	3.40	0.15	14.28	
		1	11.10	9.85	0.15	16.40	
					Present Qty=	143.42	
					Limited to Qty=	131.22	Cum

8/7/20
Assistant Engineer
Ward No.05

8/7/2020
Assistant Executive Engineer
Bytarayanapura Sub-Division

EMAIL:newzen576@gmail.com

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Item No	Description of Item	No	L	B	D	Qty	Unit
11	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.						
	Kuvempu Nagara Cross road from 1st Main Road (CC Road)						
	Cross - 3	1	28.00	5.00		140.00	
		1	30.00	5.20		156.00	
		1	16.20	4.90		79.38	
		1	5.80	5.80		33.64	
		1	13.50	2.50		33.75	
	3rd B Cross	1	20.00	4.60		92.00	
		1	22.00	4.40		96.80	
		1	30.00	4.00		120.00	
		1	28.00	3.40		95.20	
		1	11.10	9.85		109.34	
					Present Qty=	**956.11**	
					Limited to Qty=	**877.92**	**Sqm**

8/8/20

Assistant Engineer
Ward No.05

8/8/2020

Assistant Executive Engineer
Bytarayanapura Sub-Division

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